

ARCO Alaska, Inc.
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Anchorage, Alaska 99510
Telephone 907 277 5637

Johnston
Ray



March 23, 1982

Mr. Thomas W. Chapple
Environmental Engineer III
State of Alaska
Department of Environmental
Conservation
Pouch O
Juneau, Alaska 99801

Certified Mail
Return Receipt Requested

Dear Sir:

Subject: Application for Modification to Air Quality Control Permit
to Operate additional sources at the Kuparuk River Oil
Field.

ARCO Alaska, Inc. a wholly owned subsidiary of Atlantic Richfield Company, requests amendment to the Air Quality Control Permit (AQC-470B) for the Kuparuk River Oil Field production facilities on Alaska's North Slope. The modification requested is to allow for installation and operation of two additional heaters (10MM Btu/hr) at Drill Sites 1-F and 1-H adjacent to the Central Production Facility (CPF-1). It is anticipated that Drill Sites 1-F and 1-H will be producing oil in May, 1982 and we will want to construct and operate the two drill site heaters in accordance with this production schedule.

These drill site heaters are included in the Kuparuk River Oil Field PSD Permit Application which was reviewed by your office late last year.

The enclosed information describes the air emission equipment, projected total emissions from the equipment, location, and other information derived from the PSD Permit Application which addresses these sources.

These two drill site heaters constitute minor emission source additions which do not significantly affect the amount or character of the overall emissions from the existing and currently permitted facilities in the Kuparuk River Oil Field, as described in AQC-470B.

The additional air emission sources that are described in the PSD Permit Application will be addressed in new permit applications to be submitted to you later this spring.

RECEIVED
MAR 26 1982

USEPA REG



0000025

COMPLIANCE BRANCH
EPA - REGION X

AIR CONTAMINANT EMISSION DATA FOR EACH UNIT/PROCESS

Unit No.	Normal operating schedule hrs/day, days/wk, wks/year			Stack or emissions point height, diameter, exhaust temp.			Control Equipment			Monitoring Devices	Emissions Estimates			
							type,	capacity,	efficiency,		SO ₂	P.M.	CO.	NO ₂
D.S. 1-F	24	7	52	17.4M	0.8M	450°K	natural gas	-	-	None	0.13	0.6	0.68	9.16
D.S. 1-H	24	7	52	17.4M	0.8M	450°K	natural gas	-	-	None	0.13	0.6	0.68	9.16

Bulk Storage/Handling Facilities-
Petroleum Products, Fuels, Gravel, Concrete

[illegible]

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

AIR QUALITY DATA SUBMITTAL FORM

FIRM NAME ARCO Alaska, Inc. ADDRESS P. O. Box 360 PHONE NUMBER (907) 265-6951

NATURE OF BUSINESS OPERATION Oil and Gas Production

COMPANY REPRESENTATIVE ON AIR QUALITY MATTERS Scott Ronzio, Sr. Environmental Coordinator PHONE NUMBER (907) 265-6951

SIGNATURE _____ DATE _____

Tabulate as completely as possible all fuel burning units, incinerators, flares, auxiliary burners, or processes which may emit particulate matter, SO₂, CO or NO₂.

CHARACTERIZATION OF AIR CONTAMINANT
EMITTING UNITS/PROCESSES

Unit No.	Type of Unit or process	Rated Capacity, indicate, BTU/hr, HP, KW, lb/hr, or process production	Type of fuel	Quantity/hr lb, gal, ft ³	sulfur content	ash content	heat content	usage - % for space heat, power generation, process heat
Drill Site 1-F	Drill Site heater	10MM Btu/hr	natural gas	9.09 x 10 ³ cfs/hr	20 ppm	-	1100 Btu/scf	drill site heater - 100%
Drill Site 1-H	Drill Site heater	10MM Btu/hr	natural gas	9.09 x 10 ³ cfs/hr	20 ppm		1100 Btu/scf	drill site heater - 100%

APPLICATION FOR
AIR QUALITY CONTROL PERMIT TO OPERATE

I. FIRM NAME ARCO Alaska, Inc.
Address P. O. Box 360
Anchorage, AK 99510 Telephone No. (907) 265-6951
LEGAL OWNER same as above
Address _____
Telephone No. _____

II. NAME OF FACILITY: Kuparuk River Oil Field

III. LOCATION OF FACILITY: Kuparuk, Alaska

IV. NATURE OF BUSINESS: (Include type of product, production rate, size and history of facility, listing the units having air contaminant emissions and control equipment type and efficiency)

Oil and gas Production Facilities, Kuparuk River Oil Field, previously permitted under AQC-470B, currently operating at about 50,000 BBLs oil per day.

This application requests modification to existing the permit in order to operate two additional drill site heaters (10MM Btu/hr each). Each heater will burn natural gas provided from the field to limit emissions, and will produce the following air contaminant emissions from each heater: 0.13TPY SO₂, 0.6TPY Particulates, 0.68TPY CO, 0.12TPY HC, 9.16TPY NO₂. Due to remote location and the small size of these heaters, no other control equipment is proposed.

V. LIST OF ATTACHMENTS (The information required to fully describe the facility outlined in the Permit Application Information and Instructions or other text, drawings, photographs and maps)

1. Air Quality Data Submittal Form
2. Air Contaminant Emission Data Sheet for each Unit/Process
3. Descriptions of sources and ambient air evaluation in PSD Permit

Application included by reference

4. Vicinity maps locating the two additional drill site heaters.

VI. CERTIFICATION STATEMENT: I certify under penalty of perjury that to the best of my knowledge all of the above information and attachments are true and correct.

SIGNATURE _____

DATE _____

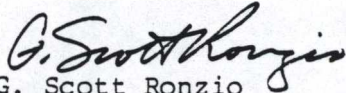
Sr. Environmental Coordinator

TITLE _____

Mr. Thomas Chapple
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I trust that the enclosed information, supplemented with those applicable data included in the PSD Permit Application are sufficient for your review and requested action on this matter. Please contact me at (907) 265-6951 if I can clarify or assist in any way. Thank you for your attention to this request.

Very truly yours,



G. Scott Ronzio
Sr. Environmental Coordinator

GSR:jms

Enclosures

cc: Doug Lowery, NRO - Fairbanks
Michael Johnson, EPA - Seattle